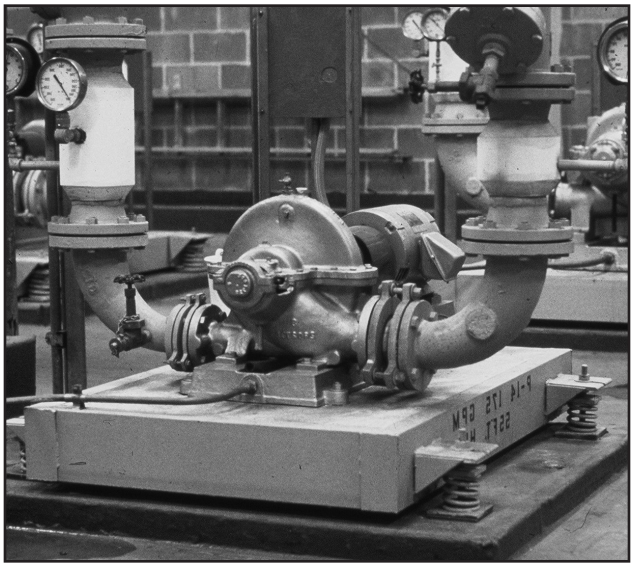
Memtech Acoustics

Inertia Base Frame
Model CIB-H



Features

- Welded structural steel perimeter frame
- Thicknesses as required:
  Standard members are 6 in (152 mm), 8 in (230 mm), 10 in (254 mm) and 12 in (305 mm). Other members up to 36 in (914 mm) are available
- Base sizes as required
- Height saving welded-on steel isolator brackets
- Welded-in reinforcing bars
- Pre-located anchor bolts (*optional*)
- Optional corrosion-resistant finish

Description

CIB-H inertia base frames, when filled with concrete and supported by proper noise and vibration isolators, provide outstanding equip ment isolation, support, anchorage, and vibration amplitude control.

CIB-H inertia base frames incorporate welded structural steel channel perimeter frames of sizes and depths specified. Also included are steel isolator brackets, welded-in steel reinforcing rods, and equipment anchor bolts, if required.

Standard CIB-H inertia base frames are available in thicknesses of 6 in (152 mm), 8 in (203 mm), 10 in (254 mm) and 12 in (305 mm), and include height saving isolator mounting brackets for use with high deflection springs.

Standard steel reinforcing rods are 1/2 in (13 mm) diameter and spaced 356 mm (14") maximum on centers each way. Pre-located equipment anchor bolts (*optional*) are fixed into proper location.

CIB-H inertia base frames minimize installation time and job site labor by arriving at the job site completely assembled and ready to fill with concrete.

Application

CIB-H inertia base frames are specifically designed and engineered to receive poured con crete, and support mechanical equipment requiring a reinforced concrete inertia base.

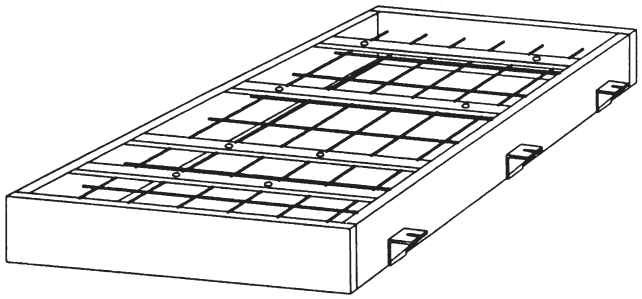
Inertia bases are used to support mechanical equipment, reduce vibration amplitude, pro-vide for attachment of vibration isolators, prevent differential movement between driving and driven members,reduce rocking by lowering equipment center of gravity, reduce motion of equipment during start-up and shut-down, act to reduce reaction move-ment due to operating loads on equipment, and act as a partial noise barrier.

Typically, CIB-H inertia base frames are used with poured concrete, and supported by noise and vibration isolators for reciprocating air and refrig-eration compressors, chillers, heat pumps, close-coupled pumps, base-mounted pumps, centrifugal fans, internal combustion engines and similar types of equipment.

CIB-H inertia base frames are specified for projects requiring base sizes not covered by CIB-L inertia base frames.

Specifications

Type CIB-H with seismic isolators: Isolation bases shall be constructed of concrete cast into fabricated inertia base frames, the steel members of which are designed and supplied by the isolator manufacturer. The concrete shall be poured into a welded structural steel frame, incorporating pre-located equipment anchor bolts, 1/2-in (13 mm) diameter reinforcing bars, spaced 356 mm (14") maximum on centers each way, and external isolator mounting brackets to reduce the mounting height of the equipment. The thickness of the base shall be a minimum of 8% of the longest span between seismic control restraint spring isolators (detailed in 2.1.A.1 paragraph), at least 6 in (152 mm), or as indicated on the drawings. Where inertia bases are used to mount pumps, the bases shall be sized to support piping elbows. Concrete inertia bases shall be Type CIB-H, as manufactured.



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